

# Notice of Allowability

Application No.

10/645,381

Examiner

Pedro J. Cuevas

Applicant(s)

YI, JWO-HWU

Art Unit

2834

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendments filed on June 27, 2005, and on September 6, 2005.
2. ☒ The allowed claim(s) is/are 3,4,7 and 8.
3. ☒ The drawings filed on 27 June 2005 and 06 September 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

## **DETAILED ACTION**

### ***Drawings***

1. The substitute drawings were received on June 27, 2005 and on September 6, 2005.

These drawings are accepted.

### ***Response to Arguments***

2. Applicant's arguments, see pages 12-13, filed on June 27, 2005, with respect to claims 3-4 and 7-8 have been fully considered and are persuasive. The rejection of claims 3-4 and 7-8 has been withdrawn.

### ***Allowable Subject Matter***

3. Claims 3-4 and 7-8 are allowed.

### ***Reasons for allowance***

4. The following is an examiner's statement of reasons for allowance.

The prior art of record, taken alone or in combination, does not teaches the construction of an apparatus for converting ocean wave energy into electric power as described on:

independent claim 3, comprising:

an electric coil wound on each of the plurality of stator cores, wherein the stator cores and the electric coils wound thereon are parallel and perpendicular to the arc defined by the axis of a fulcrum, and

a barrier is disposed between and abutting each adjacent stator cores, whereby upward motion of the float caused by impact of the waves will move the magnet downward by the leverage of the lever and compress the resilient means,

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downward motion of the float will move the magnet by the leverage of the lever and expand the resilient means, and repeated upward and downward motions of the magnet will induce a voltage in the electric coils; and

independent claim 7, comprising:

a magnet on top of a vibration member, with the magnet movable about an arc defined by the axis of the driving shaft;

left and right resilient means adjacent the magnet and coupled to the intermediate vibration member;

an electric coil wound on each stator cores, wherein the stator cores and the electric coils wound thereon are parallel and perpendicular to the arc, and

a barrier is disposed between and abutting each adjacent stator cores, whereby a vibration of the intermediate vibration member caused by impact of waves will compress the left resilient means and expand the right resilient means via the driving shaft so as to move the magnet, and repeating of the movement of the magnet will induce a voltage in the electric coils.

Dependent claims 4 and 8 are considered allowable by their respective dependence on allowed independent claims 3 and 7.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

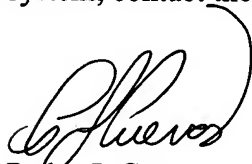
***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

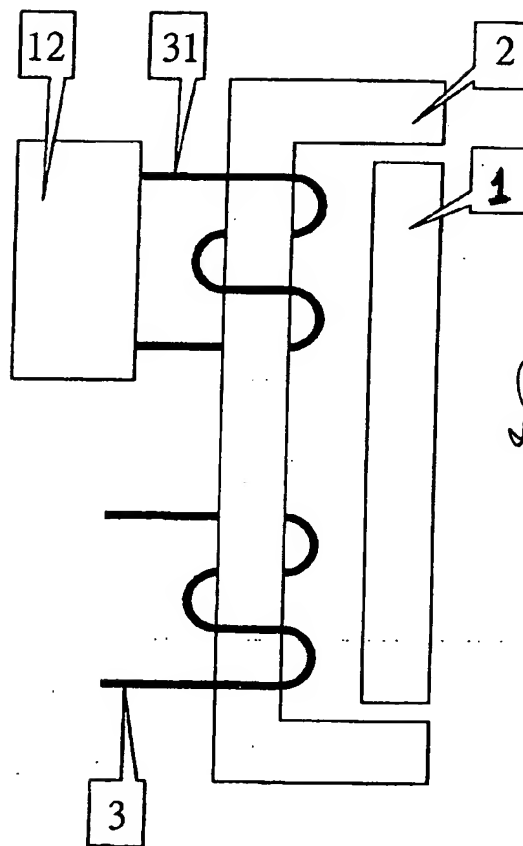
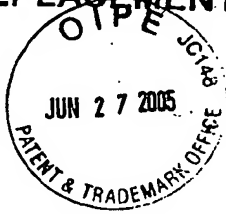
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (571) 272-2021. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Pedro J. Cuevas  
September 11, 2005

  
DARREN SCHUBERG  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800



*Drawing change approved  
B. H. H. H.  
7/29/05.*

FIG. 5

## REPLACEMENT SHEET

9/6/05.

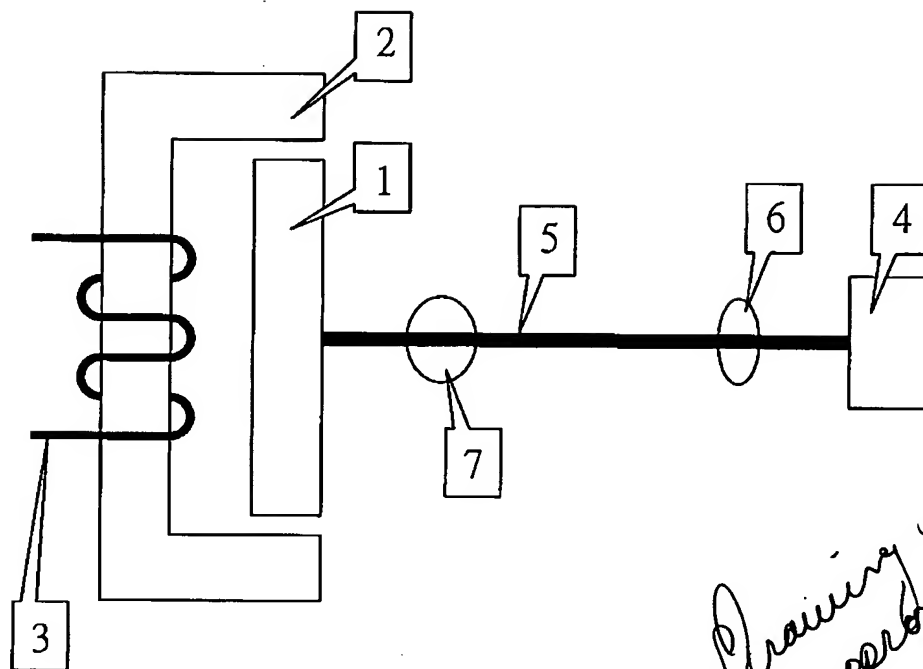


FIG. 1

*Drawing changed  
approved.  
Glover  
9/11/05.*

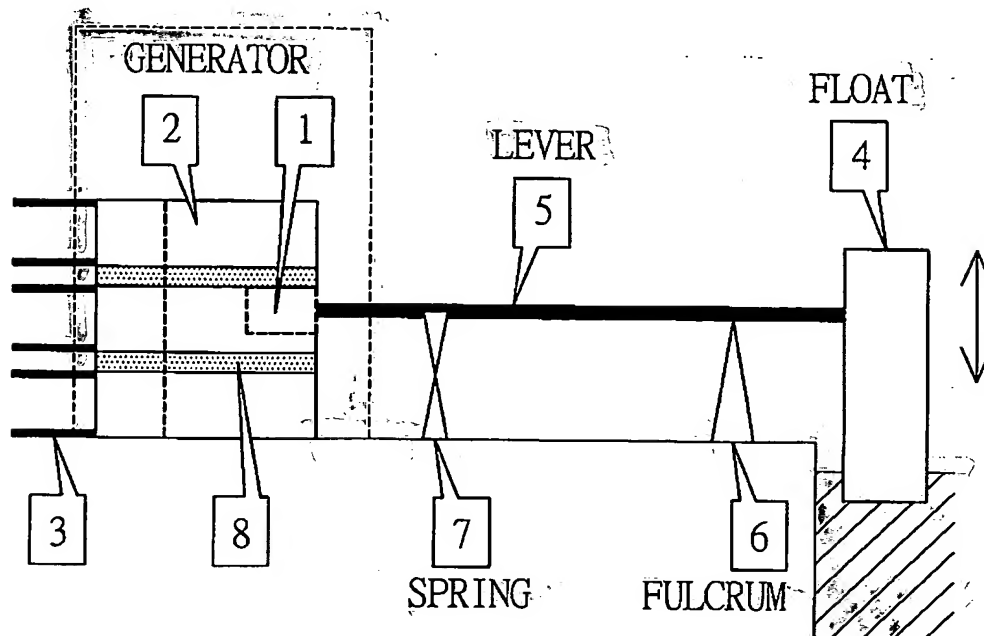


FIG. 2